



1<sup>ST</sup> STAGE  
WASH SYSTEM

## Cleaner 419-C

Spray Washer Cleaner  
**Technical Data**

### DESCRIPTION:

Cleaner 419-C is a heavy duty liquid cleaner for use in spray washer operations. It incorporates a unique blend of surfactants that are stable in a high caustic media and thus maintain cleaning effectiveness. Removal of heavy soils is quickly accomplished due to highly active penetrating agents and sequestrates. A high tolerance for contamination provides for sustained cleaning power and longer tank life.

### USE:

Use at 1 to 3% (Vol.) at 120° to 170°F. for one minute in spray washer operations. Extremely heavy soils may require higher concentrations. Safe on iron, steel and copper (may darken some alloys); not safe on soft metals.

### SPECIFICATIONS:

Form	Clear amber liquid
Odor	Mild
Causticity	Medium-high
Foaming	Controlled
Specific Gravity	1.22
Rinsability	Complete
pH (Conc.)	Above 13

**CAUTION:           CONTAINS CAUSTIC. KEEP OUT OF REACH OF CHILDREN.**

Avoid contact with skin and eyes. When handling, wear rubber gloves and goggles. Should contact occur, flush skin with water; for eyes, flood with water for 15 minutes and get medical attention.

The information in the bulletin is to our best knowledge, true and accurate, but all recommendations or suggestions are made without guarantee, since the conditions of use are beyond our control. Chemical Specialties disclaims any liability incurred in connection with the use of these data or suggestions.

MIL0005808



MARCUS BRYANT

913-661-0767

Date: 9-25-00

**"" FIRST STAGE ""**

CHEMICAL: Cleaner 419-C  
INITIAL CHARGE: 75 Gallons  
TANK SIZE: 3500 gallons  
CONCENTRATION: 2.0 %  
CONTINUED pH: 10 to 13.5

**TITRATION INSTRUCTIONS:**

25 ML. SAMPLE.

3-5 DROPS PHENOLPHTHALEIN.

DROP 2N SULFURIC ACID UNTIL COLOR CHANGE. NUMBER OF DROPS  
MULTIPLIED BY .20 EQUALS % PER GALLON.

	DROPS FACTOR .37	% PER GALLON	
	6	1.20	
	7	1.40	
.....			
OPTIMUM	8	1.60	RANGE
	9	1.80	
	10	2.00	
.....			
	11	2.20	
	12	2.40	

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# Material Safety Data Sheet

Chemical Specialties, Inc.

PO Box 27095

Overland Park, KS 66225-7095

## NFPA HAZARD RATING

4-EXTREME

3-HIGH

2-MODERATE

1-SLIGHT

0-INSIGNIFICANT

HEALTH

2

FIRE

0

REACTIVITY

1

SPECIAL

Date: Revised June 16, 1998

## I. General Information

Product type	Spray washer cleaner	Trade Name	CLEANER 419-C
Chemical Family:	Caustic	Formula:	Blend of caustic, silicates, amine,
Manufacturer	Chemical Specialties, Inc.	Sequestrants and biodegradeable surfactants.	
Manufacture's Address:	PO Box 27095 Overland Park, KS 66225-7095	Mfg's Phone #	Chemtrec's Phone #
		513-868-9662	1-800-424-9300
Proper DOT Shipping Name :	Corrosive liquid, basic, inorganic, NOS (Potassium Hydroxide & Sodium Hydroxide)	DOT Hazard Class	8

## II. Hazardous Compounds

Hazardous Components	CAS #	Percent	Exposure Limits (PEL/TLV)
Pottasium Hydroxide	1310-58-3	30% Max	2mg/M3
Sodium Hydroxide	1310-73-2	10% Max	2mg/M3
Triethanolamine	102-71-6	5% Max	5mg/M3
*Diethanolamine	111-42-2	1%	3 PPM

\*This chemical is subject to the reporting requirement of SARA TITLE III.

## III. Physical Data

Boiling Point	About the same as water	Specific Gravity	1.230
Solubility in Water	Complete	Percent Volatile (wt.)	69.5
pH	Above 13	Evaporation Rate	About same as water
Apperance	Clear liquid	Odor	Mild odor
VOC's (% wt.)	N/A	Other	N/A

## IV. Fire & Explosive Hazard Data

Flash Point (F)	N/A				
Auto Ignition Temperatue	N/A	Flammable Limits:	LEL	N/A	UEL N/A
Extinguishing Media	N/A				
Special Fire & Fighting Procedures:	N/A				
Unusal Fire & Explosion Hazards:	N/A				

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**V. Health Hazard Data**

OSHA (PEL)	N/A	ACGGIH (TLV)	N/A
Listed as carcinogen (known or potential)	NTP:	No	IARC: No
Symptoms of Exposure: As with any caustic compound, will cause severe burns to skin and eyes.			
Medical Conditions Aggravated by Exposure: N/A			
Primary Route(s) of Entry:			
Skin Contact	<input checked="" type="checkbox"/>	Eye Contact	<input checked="" type="checkbox"/>
Ingestion	<input type="checkbox"/>	Inhalation	<input type="checkbox"/>
Absorption	<input type="checkbox"/>		
Emergency First Aid:			
For skin - flush with water til clean. If burn occurs, get medical attention.			
For eyes - flood with water for 15 minutes and get medical attention.			

**VI. Reactivity Data**

Stability:	Stable	<input checked="" type="checkbox"/>	Unstable	<input type="checkbox"/>
Conditions to Avoid:	N/A			
Incompatibility: Materials to Avoid	Soft metals and acids.			
Hazardous Polymerization:	May occur	<input type="checkbox"/>	Will not occur	<input checked="" type="checkbox"/>
Hazardous Decomposition Products:	None known			

**VII. Environmental Protection Procedures**

Spill Response:	Wipe up and rinse area with water and /or use floor absorbent.
Waste Disposal Method:	Check federal, state, and local codes.

**VIII. Special Protection Information**

Eye Protection:	Goggles and/or face shield	Skin Protection:	Protection gloves
Respiratory Protection:	Not required	Ventilation Recommended:	Exhaust fans
Other Protection:	Protective apron and boots		

**IX. Special Precautions**

Hygienic Practices in Handling and Storage:	Avoid contact with skin, eyes, and clothing. Keep covered and store at moderate temperatures.
Precautions for Repair & Maintenance of Contaminated Equipment:	Consult Sections V and VIII to insure safe procedures.
Other Precautions:	Do not add anything to concentrated product. Keep from freezing.

The information and recommendations contained herein are based upon data believed to be correct. However, no warranty or guarantee of any kind, expressed or implied, is made and all liability is disclaimed from reliance thereon.

